Question 1

WAP to extract Line Contains both 'bubble' and 'gum'.

In [1]:

```
import re
```

In [2]:

```
s = "I love bubble gum.Bubbles are not that.Gum is different.But bubble gum is g
ood."
t = re.split(r'\.', s)
for i in t:
    if (re.search(r'bubble',i) and re.search(r'gum',i)):
        print(i)
```

```
I love bubble gum
But bubble gum is good
```

Question 2

WAP to find repeated words, such as "the the"

In [3]:

```
s = "Why is the the melody very very chocolaty."
result = re.findall(r'(\b\w+\b)(\s+\1)+',s)
print(result)
```

```
[('the', ' the'), ('very', ' very')]
```

Question 3

WAP to extract Line Contains 'bubble' but Neither 'gum' Nor 'bath' .

In [4]:

```
s = "bubble gum is good in bath. bath takes bubble. bubble is nice."
t = re.split(r'\.',s)
for i in t:
    if(re.search(r'bubble',i) and (not (re.search(r'bath',i)) ) and (not (re.sea
rch(r'gum',i)))):
        print(i)
```

```
 bubble is nice
```

Question 4

WAP to verify IP address

In [5]:

```
s = input()
zerototff = "(\\d{1, 2}|(0|1)\\d{2}|2[0-4]\\d|25[0-5])"
r = zerototff + "\\." + zerototff + "\\." + zerototff + "\\." + zerototff
if re.match(r,s):
    print('Valid')
else:
    print('Invalid')
```

```
Invalid
```

Question 5

WAP to extract email-ids and passwords from a file and print them using regex (use gmail/srmap email rules)

In [6]:

```
f = open("ep.txt",'r')
t = ' '
while(f):
    t = f.readline()
    if(t!=''):
        #using rules for srmap email address
        if(re.search(r'^[a-z0-9]+[\._]?[a-z0-9]+@srmap.edu.in', t)):
            print("Email :" + t)
    else:
        break
f.close()
```

```
Email :aayusi_biswas@srmap.edu.in

Email :hello@srmap.edu.in
```

Question 6

WAP to print all ascending order strings from a file

In [7]:

```
f = open("string.txt",'r')
print("Strings that are in ascending order: ")
t = ' '
while(f):
    t = f.readline()
    if (t!=''):
        if(re.search(r'^A*B*C*D*E*F*G*H*I*J*K*L*M*N*O*P*Q*R*S*T*U*V*Q*X*Y*Z*a*b*
c*d*e*f*g*h*i*j*k*l*m*n*o*p*q*r*s*t*u*v*w*x*y*z*$', t)):
            print(t)
    else:
        break
f.close()
```

```
Strings that are in ascending order:
aay

aaaaa

aadft

bello
```

Question 7

WAP to read a file and comment first 10 lines from the file using regex and write new contents into another file

In [11]:

```
f = open("string.txt",'r')
fi = open("new.txt",'w')
c = 0
while(f and c<10):
    t = f.readline()
    if(t!=''):
        r = re.compile('^')
        n = r.sub("#" ,t)
        fi.write(n)
        print(n)
        c = c +1
    else:
        break
while(f and c>=10):
    t = f.readline()
    if(t==''):
        fi.write(t)
        print(t)
    else:
        break
f.close()
```

```
#aay

#AAYUSI

#AaSs

#SaS

#aaaaa

#asdwc

#nkjws

#mnswd

#aadft

#poipr
```

Question 8

WAP to read a file and print lines which start and ends with same word

In [12]:

```
f = open("file.txt",'r')
t = ' '
while(f):
    t = f.readline()
    if(t!=''):
        s = re.findall(r'^\w+',t)
        l = re.findall(r'(\w+|\w+.)$',t)
        p = l[0]
        if(p[len(p)-1] == '.'):
            l[0] = l[0][:-1]
        if(s[0].lower() == l[0].lower()):
            print(t)
    else:
        break
f.close()
```

```
This is a new text file this.

Dogs are faithful dogs

Nine whatevr nine.
```

Question 9

WAP to read a HTML file and print all tags (e.g., < html >,< body >,< title >,etc.)

In [13]:

```
f = open("hello.html",'r')
t = f.read()
r = re.findall(r'<[^>]+>',t)
print(r)
f.close()
```

```
['<html>', '<body>', '</body>', '</html>']
```

Question 10

WAP to read a XML file and print contents of tags (e.g., < id>100<\id>< name>SRM<\name>)

In [20]:

```
f = open("new.xml",'r')
t = f.read()
r = re.findall(r'<\w+>.*</\w+>',t)
print(r)
f.close()
```

```
['<to>Tove</to>', '<from>Jani</from>', '<heading>Reminder</heading
>', "<body>Don't forget me this weekend!</body>"]
```